

A Tour of GitHub for Beginners



Sara Cope November 2017



Version Control

System that allows you (and your team) to:

- Collaborate on a project together
- Track changes to a project



Git for Version Control

Commonly used version control system at GSA and all of gov.

Is distributed, which means everyone has their own copy of the project.

Has a command line interface.

```
× ..team-template (... ● 第1 × ..S/cto-website (zsh) 第2
  GSA-DS cd cto-website
  cto-website git:(sc_training-page) git checkout master
Switched to branch 'master'
Your branch is behind 'origin/master' by 32 commits, and can be fast-forwarded.
 (use "git pull" to update your local branch)
  cto-website git:(master) git status
On branch master
Your branch is behind 'origin/master' by 32 commits, and can be fast-forwarded.
 (use "git pull" to update your local branch)
nothing to commit, working tree clean
  cto-website git:(master) git pull origin master
remote: Counting objects: 87, done.
remote: Compressing objects: 100% (55/55), done.
remote: Total 87 (delta 50), reused 69 (delta 32), pack-reused 0
Unpacking objects: 100% (87/87), done.
From https://github.com/GSA/cto-website
                    master -> FETCH HEAD
* branch
   fdc294a..9eba27a master -> origin/master
Updating c8e9a14..9eba27a
Fast-forward
                                                                 26 ++++++
 quides/0 a guide newtoagile.md
 quides/conducting daily standup.md
 guides/conducting_sprint_planning.md
 _guides/conducting_sprint_retrospective.md
                                                                _guides/develop_an_agile_product_roadmap.md
 _guides/glossary.md
                                                                26 ++++++
assets/downloads/techtalks/GEARTechTalk.pptx.pdf
                                                               Bin 0 -> 2284680 bytes
 .../techtalks/GSAITCostTransparencyTechTalkNov2017.pdf
                                                               Bin 0 -> 812668 bytes
assets/downloads/techtalks/tech-talk-data-sciences.pdf
                                                               Bin 0 -> 242355 bytes
 .../techtalks/tech-talk-devsecops--for-d2d Platform.pdf
                                                               Bin 0 -> 400117 bytes
assets/img/quides/Ken Rubin Daily Standup.png
                                                               Bin 0 -> 193830 bytes
assets/img/guides/Ken Rubin Sprint Planning.png
                                                               Bin 134068 -> 772956 bytes
assets/img/guides/Ken Rubin Sprint Retrospective.png
                                                               Bin 0 -> 179595 bytes
14 files changed, 124 insertions(+), 30 deletions(-)
create mode 100644 guides/conducting daily standup.md
create mode 100644 guides/conducting sprint retrospective.md
 create mode 100644 assets/downloads/techtalks/GEARTechTalk.pptx.pdf
create mode 100644 assets/downloads/techtalks/GSAITCostTransparencyTechTalkNov2017.pdf
 create mode 100644 assets/downloads/techtalks/tech-talk-data-sciences.pdf
create mode 100644 assets/downloads/techtalks/tech-talk-devsecops--for-d2d Platform.pdf
create mode 100644 assets/img/quides/Ken Rubin Daily Standup.png
```

create mode 100644 assets/img/guides/Ken_Rubin_Sprint_Retrospective.png

cto-website git:(master)

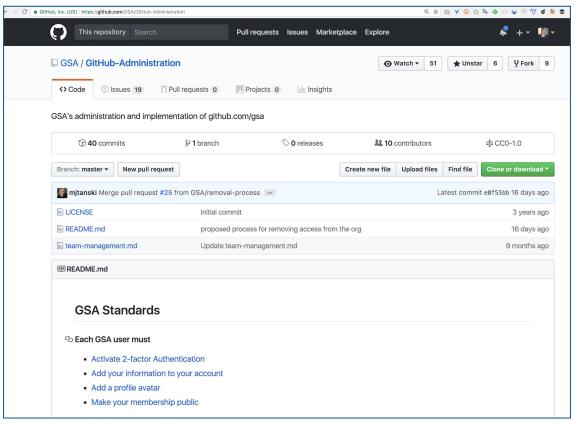


What is GitHub?

Website to host your projects online that facilitates project collaboration through version control without having to use the command line.



Setup your GitHub account:



https://github.com/GSA/GitHub-Administration



Personal vs. Organization GitHub Account



GitHub Glossary

- Repository (repo) the space (page)
 where my project lives
- Fork create your own copy of a project
- <u>Issue</u> start a conversation about a project
- <u>Branch</u> create a version of the project that you would like to work from
- Commit save the current version of my work
- <u>Pull request</u> suggest changes to a project
- <u>Markdown</u> a way to format text which is then compiled to code



DEMO!



Rules to Live By For Commits:

- Don't end your commit with a period.
- Keep your commits to 50 characters or less. Add extra detail in the extended description window, if necessary. This is located just below the subject line.
- Commits use the imperative mood. Add instead of Added. Merge instead of Merged.
- Think of your commit as expressing intent to introduce a change.



Contributing to open source on GitHub

- Add/edit content (markdown files)
- Create/update documentation
- Translate documentation
- Test and add info on bugs
- Make feature suggestions



Additional Training:

- GitHub on demand training
- GitHub Guides
- Version control techtalk
- Open source and version control <u>GSA</u> workshop
- DigitalGov in-person workshop Dec 12th



Thanks!

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